

1 What is claimed is:

1 1. A surface material comprising:

2 (a) 10 – 30% clay

3 (b) 30 – 80% decomposed granite; and

4 (c) 10 – 40% wax.

1 2. The surface material of claim 1 wherein the clay is dry clay.

1 3. The surface material of claim 2 wherein the dry clay is bentonite.

1 4. The surface material of claim 1 wherein the clay is bentonite.

1 5. The material of claim 1 wherein the wax has a drop melt point of about 166° F.

1 6. The material of claim 1 wherein the wax has a congealing point of between 150° F and  
2 167° F.

1 7. The material of claim 1 wherein the wax has a kinematic viscosity between 16 and 23.

1 8. The material of claim 1 wherein the wax has a kinematic viscosity between 6.7 and 7.8.

1 9. The material of claim 1 wherein the wax has a kinematic viscosity between 6.7 and 23.

1 10. The material of claim 1 wherein the wax has a Saybolt viscosity between 81.8 and 111.4.

1 11. The material of claim 1 wherein the wax has a Saybolt viscosity between 48.1 and 51.8.

1 12. A surface material made by the method of mixing clay with emulsified wax.

1 13. The method of claim 12 wherein the wax is emulsified in water.

1 14. The method of claim 13 wherein the wax is liquid while emulsified.

1 15. The method of claim 13 wherein the wax is a microcrystalline based slack wax.

1 16. The method of claim 12 wherein the surface material is dried after the clay and  
2 emulsified wax are mixed.

- 1 17. The method of claim 12 that further comprises the step of placing a layer of the surface  
2 material on a surface.
- 1 18. The method of claim 17 wherein the layer is between 2" and 6" deep.
- 1 19. The method of claim 17 wherein the surface material is dried before placing it on the  
2 surface.
- 1 20. The method of claim 17 that further includes the step of transporting the surface material  
2 prior to placing a layer on the surface.
- 1 21. The method of claim 20 wherein the mixture is at least partially covered with a moisture-  
2 proof barrier during the step of transporting.
- 1 22. The method of claim 12 wherein the surface material further comprises decomposed  
2 granite and is made by the method of mixing decomposed granite, clay and emulsified  
3 wax.
- 1 23. The method of claim 12 wherein neither the clay nor the wax is heated prior to or during  
2 the mixing step.
- 1 24. The method of claim 21 wherein the moisture-proof barrier is comprised of plastic.
- 1 25. The method of claim 12 wherein the emulsified wax is placed onto a surface comprising  
2 clay, and the emulsified wax is mixed with the clay of the surface to form a mixture  
3 comprising wax and clay.
- 1 26. The method of claim 12 wherein the surface material further comprises sand and is  
2 formed by the method of mixing sand, clay and emulsified wax.
- 1 27. The method of claim 25 wherein the surface is further comprised of sand.
- 1 28. The method of claim 25 wherein the mixing is done by tilling the clay and emulsified  
2 wax by hand.

- 1 29. The method of claim 25 that further includes the step of compressing the mixture  
2 comprising wax and clay.
- 1 30. The method of claim 29 wherein the mixture is compressed using a roller.
- 1 31. The method of claim 25 wherein neither the clay nor the emulsified wax is heated prior to  
2 or during mixing.
- 1 32. The method of claim 12 wherein the surface material includes gravel.
- 1 33. The method of claim 12 wherein the surface material includes organic binder.
- 1 34. The method of claim 33 wherein the organic binder is dried and ground plantago.
- 1 35. The method of claim 34 wherein the dried and ground plantago consists of 80% or more  
2 plantago husk.
- 1 36. The method of claim 25 wherein the surface material is part of a pitcher's mound.
- 1 37. A surface material having the following properties:  
2 (a) a dry density of between 100 and 115 lbs/ft<sup>3</sup>; and  
3 (b) an unconfined compressive strength of between 10 and 100 psi, wherein there is  
4 no brittle failure of the surface material.
- 1 38. The surface material of claim 37 that further includes a shear strength of between 5 and  
2 50 psi.
- 1 39. The surface material of claim 37 that includes wax.
- 1 40. The surface material of claim 37 that includes clay.
- 1 41. The surface material of claim 40 that includes wax.
- 1 42. The surface material of claim 40 that further includes silt.
- 1 43. The surface material of claim 40 that further includes decomposed granite.

1 44. A method for repairing a surface material, the surface material comprising soil and wax,  
2 the method comprising the step of working the surface material with a heated tool.

1 45. The method of claim 45 wherein the tool is a rake and the working includes raking the  
2 surface material.

1 46. The method of claim 45 wherein the tool is a roller and the working includes compacting  
2 the surface material.

44. A method for repairing a surface material, the surface material comprising soil and wax,  
the method comprising the step of working the surface material with a heated tool.  
45. The method of claim 45 wherein the tool is a rake and the working includes raking the  
surface material.  
46. The method of claim 45 wherein the tool is a roller and the working includes compacting  
the surface material.